

On special cases in the inverse mixed boundary problem

S/044/62/000/009/024/069
A060/A000

where $\varphi(\tau_0) \neq 0, \psi(\tau_0) \neq 0, a > 0, r > 0$.

4. The functions u, v , have on L_2^2 a polar singularity

$$u = \varphi(\tau)(\tau - \tau_0)^{-r}, v = \psi(\tau)(\tau - \tau_0)^{-r}.$$

The apparatus used for investigating the indicated special cases is a Cauchy type integral with a contour of integration on the real axis, the compactness of which has a singularity of one of the forms

$$|t - c|^{-1} |\ln|t - c||^{-\alpha-1} \quad \text{or} \\ (t-c)^{-1} [\ln|t-c|]^{-m} [\ln|\ln|t-c||]^{-\alpha-k},$$

where c is one of the ends of the contour of integration.

E. G. Khasabov

[Abstracter's note: Complete translation]

Card 3/3

ACCESSION NR: AT4035426

8/2529/61/000/064/0025/0045

AUTHOR: Monakhov, V. N.

TITLE: Special situations in inverse composite boundary value problems

SOURCE: Kazan. Aviatsonnyy institut. Trudy*, no. 64, 1961. Matematika i mekhanika (Mathematics and mechanics), 25-45

TOPIC TAGS: differential equation, boundary problem, boundary value problem, analytic function, regular function, existence theorem

ABSTRACT: On a known portion $L_1^+ z$ of a curve L_z , it is given that the real and imaginary parts of an analytic function, u and v , respectively, satisfy the boundary condition

$\Phi(u, v) = 0$. On an unknown portion $L_2^+ z$ of L_z , the following conditions are specified:

$$\begin{aligned} u &= f_1(v), \\ v &= f_2(v), \quad v \in [v_0, v_1] \end{aligned} \quad (1)$$

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where γ can be any one of a number of parameters. It is required to choose a finite portion L_γ^2 of the curve L_γ and a function $w(z)$ regular in the region bounded by the curve, satisfying both of the boundary conditions above, where $\psi(\tau)$ and $\phi(u, v)$ are single-valued and continuous and the first derivative of the arguments satisfies $0 \neq \left| \frac{dw}{d\tau} \right| < \infty$, where $w_1 = f_1(\tau_1) + i f_2(\tau_1)$, $w_n = f_1(\tau_n) + i f_2(\tau_n)$ are finite curves in the plane

$w = u + i v$ and the directions of orientation of L_γ^2 and L_γ^2 , derived from equation (1), coincide. The present article discusses the existence of a solution to the above boundary value problem

for $\frac{dw}{d\tau}$ tending to zero exponentially along the curve L_γ^2 . Orig. art. has: 33 formulas.

ASSOCIATION: Aviatzionnyy Institut, Kazan (Institute of Aviation)

SUBMITTED: 28 Nov 60

DATE ACQ: 27 May 64

ENCL: 00

SUB CODE: MF

NO REF SOV: 007

OTHER: 000

Card 2/2

32300
S/020/61/141/004/004/019
C111/C222

16.2Y00
AUTHOR:

Konakhov, V.N.

TITLE:

Inverse mixed boundary value problem for several unknown arcs

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 141, no. 4, 1961, 600-802

TEXT: On every known arc L_z^i ($i = 1, \dots, m$) of the contour L_z let the boundary condition

$$\phi_i(u, v) = 0 \quad (1)$$

be prescribed which connects the real part and the imaginary part of the sought analytic function $w(z) = u + iv$; on the unknown arcs $\bar{L}_z^i$ ($i = 1, \dots, m$) let be given $w(\tau)$:

$$u = f_1^i(\tau), \quad v = f_2^i(\tau), \quad \tau \in [\tau_n^i, \tau_{i+1}^i]. \quad (2)$$

The author seeks the closed contour L_z consisting of the L_z^i and $\bar{L}_z^i$, and the function $w(z)$ analytic in $D(L_z)$ which satisfies (1), (2).

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Inverse mixed boundary value problem ...

At first the author considers the case, where $\zeta = x - Rez$ and L_z^i ($i = 1, \dots, m$) are polygons with $(n_i - 1)$ sides and a prescribed sense of orientation. The position of L_z^1 is given fixedly while the other polygons can be moved along OY. It is assumed that the contour L_w consisting of the arcs L_w^i with the equations (1) and the arcs $\bar{L}_w^i$ with the equations (2) is closed, piecewise smooth and without overlappings. By a mapping of the upper halfplane of the ζ -plane onto the region $D(L_w)$ and a comparison of the obtained function $w = \omega(\zeta)$ with (2) the author obtains the boundary value problem

$$k_j^i \frac{dx}{dt} - \frac{dy}{dt} = 0, \quad t \in [t_j^i, t_{j+1}^i] \quad (3)$$

$$\frac{dx}{dt} = h_i(t), \quad t \in [t_n^i, t_1^{i+1}]$$

where k_j^i ($j = 1, \dots, n-1$; $i = 1, \dots, m$) -- tangens values of the in-

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Inverse mixed boundary value problem ...

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clination angles of the sides L_z^i with respect to OX , and t_j^i ($j=1, \dots, n_i$; $i=1, \dots, m$) -- inverse images of the corners and ends of the polygons lying on the real axis of the ζ -plane; the $h_i(t)$ are known functions.

The general solution of (3) which remains finite in infinity reads

$$z = F(\zeta) = \sum_{i=1}^m \frac{\Pi(\zeta)}{\kappa_i} \int_{t_n}^{t_i^{i+1}} \frac{h_i(t) dt}{\Pi(t)(t-\zeta)} d\zeta + C, \quad (4)$$

where $\Pi(\zeta)$ is the canonical function of the homogeneous Hilbert problem with discontinuous coefficients. Thus the author proves the existence and uniqueness of the function $z = F(\zeta)$. Then it holds $w(z) = \omega[F^{-1}(z)]$, where $\zeta = F^{-1}(z)$ is the inversion function of $z = F(\zeta)$.

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C111/C222

If the L_z^1 are curvilinear then a limiting passage of approximating polygons to L_z^1 is carried out.

There are 5 Soviet-bloc and 1 non-Soviet-bloc reference.

ASSOCIATION: Kazanskiy aviatsionnyy institut (Kazan' Aviation Institute)

PRESENTED: July 13, 1961, by I.N. Vekua, Academician

SUBMITTED: July 12, 1961

Card 4/4

X

MONAKHOV, V.N.; KHUSHUTDINOVA, N.V.

Some boundary properties of harmonic and parabolic functions.
Trudy KAI no.71:106-132 '62. (MIRA 18:5)

1.541004-2 EWT(d) IJP(e)

ACQUISITION NR: AR5016315

UN/0014/55/000/006/0040/0040
511.53.532/.533

SOURCE: Tr. Seminara po obratn. krayev. zadacham. Kazansk. un-t, vyp. 1,

AUTHOR: Monakhov, V. N.

ABSTRACT: Boundary value problems with free boundaries for elliptic systems of equations.

CITED SOURCE: Tr. Seminara po obratn. krayev. zadacham. Kazansk. un-t, vyp. 1,
1964, 38-92

TOPIC: DIFFERENTIAL EQUATIONS; BOUNDARY VALUE PROBLEM; ELLIPTIC EQUATION

TRANSLATION: Existence and uniqueness of a potential subsonic flow are proven for the following inverse boundary value problems of gas dynamics: 1) irrotational flow of the desired profile depending on the velocity given on its surface; 2) flow with separation of the stream of the desired arc by unbounded flow of gas with given velocity; 3) the analogous problem for flow of gas in a channel with unknown wall shape; 4) the analogous inverse problem on flow with separation of the stream about an obstacle placed in a channel. The conditions of physical realizability of flow have the same form as in the case of an incompressible fluid. In the last section, Sec 1/2

L 541916-22

ACCESSION NO: AR5016315

the problem of existence of a unique single-sheeted solution of the interior inverse
boundary value problem in linearized form for a general elliptic system of equa-
tions. I. Iar'yev

SUB CODE: MA

ENCL: 00

ACCESSION NR: AR5018966

UR/0044/65/000/007/B066/B066
517.9:532

SOURCE: Izv. zh. Matematika, Ans. 78308

AUTHOR: Monakhov, V. N.

TITLE: On one class of boundary value problems with free boundaries for elliptic systems

CITED SOURCE: Tr. Seminara po obratn. krayev. zadacham. Kazansk. un-t, vyp. 1, 1964, 93-95

TOPIC TAGS: boundary value problem, elliptic equation

TRANSLATION: A problem on filtration flow in a plane (x, y) with potential function $\phi(x, y)$ and flow function $\psi(x, y)$ is solved for the case when d'Arcy's law does not hold. The quantities x, y, ϕ and ψ are expressed by curvilinear integrals in the plane (u, v) . $\left[u = \int \frac{\partial \phi}{\partial x} dx, v = \int \frac{\partial \phi}{\partial y} dy \right]$. These integrals contain a certain function $w(u, v)$ which

is defined from an elliptic equation of second order.

SUB CODE: MA

ANCL: 00

Card 1/1

1.2201-4 B7(d) P-4 10/60
 DISSEMINATION NR: AR3004737

S/0044/64/000/011/B056/B056

SOURCE: Ref. zh. Matematika, zh. 11B254

14
 B

TOPIC: Stabilization, the solutions of boundary value problems

Author: Zhukovskiy, N. S. 1963, 98-107

TOPIC: Cauchy problem, boundary problem, quasilinear equation, ordinary differential equation, asymptotic stability

ABSTRACT: The article is devoted to the study of the asymptotic stability of the solutions of the boundary value problems of the theory of quasilinear equations.

1/2

ADDITION NR: AR5004727

$$\frac{\partial u}{\partial t} = A(t, x, u) \frac{\partial u}{\partial x} + B(t, x, u) \frac{\partial u}{\partial z} + C(t, x, u) u$$

(1)

with conditions $u(0, x) = u_0(x)$, $u(t, 0) = u_1(t)$, $u(t, X) = u_2(t)$

in the region $P = \{t \in [0, T], x \in [0, X], z \in [0, Z]\}$. The boundary value problem (1) with conditions $u_0(x)$, $u_1(t)$, $u_2(t)$ in the region P is a Cauchy problem with initial condition $u_0(x)$ in the region P ($0 \leq x \leq X$).

The coefficients $A(t, x, u)$, $B(t, x, u)$, $C(t, x, u)$ and also the initial and boundary-value functions $u_0(x)$ and $u_1(t)$ ($i = 1, 2$)

satisfy the smoothness conditions ensuring the existence and uniqueness of the solution in the region P .

The conditions $u_0(x)$, $u_1(t)$, $u_2(t)$ are the solutions of the

and

SECTION NR: ARGUMENT

and problems and of "the" system of Eq. (1) stabilize to
conditions of ordinary differential equations. From the Intro-

SECTION NR

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L 16163-66 BWT(1)/EWP(m)/FCS(k)/ETC(m)-6/EWA(1) WW

ACC NR: AP5026975

SOURCE CODE: UR/0020/65/164/005/0982/0984

AUTHOR: Monakhov, V. N.

ORG: Kazan State University in. B. I. Ul'yanov -Lenin (Kazanskiy gosudarstvennyy universitet)

TITLE: Uniqueness of the solution of plane problems with free boundaries in gas dynamics

SOURCE: AN SSSR. Doklady, v. 164, no. 5, 1965, 982-984

TOPIC TAGS: gas dynamics, gas flow, analytic function

ABSTRACT: The existence and uniqueness of subsonic potential gas-flow for a large class of problems with free boundaries in gas dynamics was proven. The existence and the uniqueness of a solution of the problem of determining the boundaries of the flow region was given for the following two cases: 1) The case of a streamline with isolations according to the Kirchhoff scheme of a curvilinear obstacle

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UDC: 517.544.3

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ACC NR: AP5026975

of an unbounded flow and that of a gas flow in a canal. 2) The case where the flow velocity is given on the unknown part of the boundary contour. The proofs were based on the well known generalized analytic functions by I. N. Vekua (see I. N. Vekua, Generalized analytic functions, M. 1959). Orig. art. has: 9 formulas.

SUB CODE: 12,20/ SUBM DATE: 09Mar65/ ORIG REF: 002/8 OTH REF: 003/

Card 2/2

MONAKHOV, V.N.

Solvability of percolation problems with free boundaries. Dokl.
AN SSSR 156 no.6:1320-1322 Je '64. (MIRA 17:8)

1. Kazanskiy gosudarstvennyy universitet imeni V.I. Ul'yanova-Lenina. Predstavleno akademikom P.Ya. Kochinoy.

ACC NR: AR6028074

(N)

REF ID: 01/0124/66/000/005/0056/0057

AUTHOR: Monakhov, V. N.

TITLE: Existence theorems for the solutions of hydrodynamic problems with free boundaries

SOURCE: Ref. zh. Mekhanika, Abs. 50344

REF SOURCE: Tr. Seminara po obratn. krayev. zadacham. Kazansk. un-t, vyp. 2, 1964, 142-152

TOPIC TAGS: hydrodynamic theory, potential flow, ideal fluid

ABSTRACT: A certain class of problems is considered in which the plane potential flow of an ideal fluid with free surfaces is to be found. In addition to free surfaces the author allows fixed barriers. He formulates the problems in terms of nonlinear, singular integral equations for the complex velocity. The solvability of the equations is proven by the Leray-Schauder method. Comparative analysis of the results with previously known results is lacking. K. K. Golovkin [Translation of abstract]

SUB CODE: 12, 13

Card 1/1

I. SERIY (S) / ET (A) / ET (P) / ET (L) / ET (E) / ET (D) / ET (V) / ET (T) / ET (K) / ET (H) /

(1) / ET (L) 12 1/16 - 30

ACCESSION NO: A0015173

UR/0137/65/000/005/D014/D014

SOURCE: Ref. zh. Metallurgiya, Abs. 5038

AUTHOR: Kartanov, V. D.; Ivanenko, N. K.; Shadchikov, V. A.; Cherepanin, A. N.;
Chernov, N. N.; Lashin, V. M.

TITLE: Automatic ultrasonic production line for cleaning grease from rolled
metal rods with a diameter from 10 to 10 mm

CITED SOURCE: Zh. Prikladnoye ultrazvuk v s.-kh. mashinost. Rostov-na-Donu,
Rostovsk. un-t, 1964, 107-120

TOPIC TAGS: ultrasonics, ultrasonic cleaning, cleaning, grease, metal rod

TRANSLATION: The article describes an experiment carried out in the
Rostov-on-Don plant on ultrasonic cleaning of grease from rolled rod. Several
different methods of cleaning are presented and recommendations are given as to a
choice of the most efficient cleaning methods applying chemical and ultrasonic
means. A. Lashin.

SUB CODE: MC, DE

ENCL: 00

Card 1/1

GLADYSHEV, G.P.; MONAKHOV, V.P.; SADCHIKOV, I.Ya.

Thermometric control of the "activity" of methyl methacrylate.
Trudy Inst. khim. nauk AN Kazakh. SSR 11:156-160 '64. (MIRA 17:11)

LEGINOV, Boris Leonovich, LITVINOV, V.T., nauchn. red.;
SVYATINA, L.B., red.

[Fire prevention measures in the painting and drying of
articles] Protivopozharnye meropriyatiya pri okraske i
sushke izdelii. Moskva, Strofizdat, 1965. 92 p.
(MIRA 18:7)

RNCHMCHESKIY, I.M.; ASKTEV, V.B.; MONAKHOV, V.V.; LYUDA, A.S., red.;
SHCHEPTEVA, T.A., tekhn.red.

[Programs of pedagogical institutes; elements of machinery for
physics and mathematics faculties. Majors: mathematics and
mechanical drawing] Programmy pedagogicheskikh institutov; osnovy
mashinovedeniya dlya fiziko-matematicheskikh fakul'tetov. Spetsial'-
nost' - matematika i chercheniye. Moskva, Gos.uchebno-pedagog.
izd-vo M-va prosv. RSFSR, 1957. 7 p. (MIRA 11:3)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye vysshikh i
srednikh pedagogicheskikh uchebnykh zavedenii.
(Machinery)

MONAKHOV, Ye.A.

The DF106-type vertical killing machine. Stal. tekhn. ekon. inform.
no.9:39-40 '59.

(MIRA 13:3)

(Killing machines)

MONAKHOV, Ye.A.; GUL'DIN, N.I.

The 2K73, 2K88 and 2K89 pipe-finishing machines. *Enl. tekhn.-ekon.*
inform. no.7:45-47 '61. (MIRA 14:8)
(Machine tools)

MORIAKHOV, Ye. I., mashinist teplovosa

This is how we strive to achieve economy in the expenditure
of diesel fuel. Elek. i topl. tiaga 6 no.9:12-14 8 '62.
(MIRA 15:10)

1. Dape Likhobory, Moskovskoy dorogi.

(Petroleum as fuel) (Diesel locomotives)

MONAKHOV, Y.I.; KHARLAMOV, P.G., inzh., red.; MEL'NIKOV, V.Ye.,
red.

{Our experience in the operation of diesel locomotives}
Nash opyt raboty na teplovoze. Moskva, "Transport,"
1964. 27 p. (MIRA 17:4)

POLUKHIN, N. P.; KORZHENEVSKIY, V. V.; MONARCHOV, Ye. N.; TANTOV, S. V.

"An Automatic Device for Checking the Electrical Parameters
of Micro-Elements"

Report submitted at the Third Conference on Automatic
Control and Electrical Measurement Methods was held at
Novosibirsk, 19-23 Sept. 1961.

"The Importance of the Breed of the Bear in Alternated Breeding and the Effect of Early Covering of Hybrid Sows on Their Size and Productivity." *Soviet Agr Sci, All-Union Sci Res Inst of Animal Husbandry, Moscow, 1955.* (ML, No 16, Apr 55)

SO: Ser. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

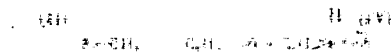
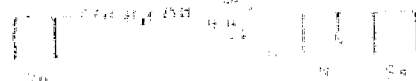
YUR'YEV, Yu.K.; MEZENTSOVA, N.N.; MONAKHOVA, A.T.

Chemistry of selenophene. Part 29: 5-Bromo- and 5-chloro-2-selenophenal. Zhur.ob.khim. 30 no.8:2726-2731 Ag '60.
(MIRA 13:8)

1. Moskovskiy gosudarstvennyy universitet.
(Selenophene)

APPROVED FOR RELEASE: 03/13/2001
 REGION HPI AP5015125

... sodium azide; they formed well-defined ... Condensation of the A-
 ... with hydrazine ...



... formula

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TRACY, H.S.; KAPLAN, J.S.; HENDERSON, A.T.

Chemistry of selenophene. Part 53: 1-(2-Selenophenyl)-2-methyl-2-butene. *J. Org. Chem.* 1979, 44, 2619-2621. 35 refs. (1978-79) and 1979.

1. Moskovskiy gosudarstvennyy universitet.

MONAKHOVA, G.N., nauchnyy sotrudnik; ROMASHEV, M.P., nauchnyy sotrudnik;
NOSOVA, A.S., nauchnyy sotrudnik; SHISHIGINA, I.A., nauchnyy
sotrudnik

Experience in the operation of OMS spinning machinery in
the New Combing Factory of the V.I. Lenin Cotton Mills in
Glukhovo. Tekst. prom. 24 no.2:29-32 F '62.

(MIRA 17:3)

1. Tsentral'nyy nauchno-issledovatel'skiy institut khlopchatobu-
mashnoy promyshlennosti (for Monakhova, Romashev). 2. Vsesoyuznyy
nauchno-issledovatel'skiy institut legkogo i tekstil'nogo mashino-
stroyeniya (VNILLTekmash) (for Nosova, Shishigina).

PONAKHOVA, I.A., red.

[Soviet Turkmenistan for 40 years; a statistical abstract]
Sovetskii Turkmenistan za 40 let; statisticheskii sbornik.
Ashkhabad, Turkmenskoe izd-vo, 1964. 157 p. (HHA 18:1)

1. Turkmen S.S.S.R. Tsentral'noye statisticheskoye upravle-
niye.

AP5017254

UR/0302/55/000/001/0033/0036
620.197.1

4455
AUTHOR: Lelaitin, A. (Candidate of technical sciences); Monakhova, K. (Senior Engineer of anticorrosion lab. 50)

TITLE: Protection from marine corrosion by liquid neoprene

SOURCE: Morskoy flot, no. 7, 1965, 33-34

15
SUBJECT: corrosion protection, synthetic rubber, neoprene corrosion preventatives, corrosion resistance, chloroprene / RD 5 Defectures, 3007 1 whaling ship

ABSTRACT: A special liquid neoprene rubber, called Nairit, has been developed to protect metal equipment from marine corrosion. This black varnish comes in three types, two of which require water rinsing (Nairit-1 and Nairit-2). The material is painted on the chloroprene base coat applied to the clean surface. All three types are usually corrosive resistant but the nonvulcanized type is a thermoplastic (softening above 50°C), and does not possess the high elasticity and good resistance to abrasive wear of the vulcanized type. All types are resistant to gasoline, mineral oil, lubricating grease, dilute acids, alkalis, etc. In addition to corrosion resistance they provide a hermetic seal, spark protection, sound absorption,

Card 11/12

BOCHMANOV, D.V., inzh.; LABUTIN, A.L., kand.tekhn.nauk; MAL'SHINA, L.P.,
inzh.; MONAKHOVA, K.S.

Synthetic materials in ship repair. Sudostroenie 28 no.7:56-
61 J1 '62. (MIRA 15:8)
(Ships--Maintenance and repair) (Protective coatings)

ORLOVA, Z.M., dots.; TALEPOVSKAYA, V.V., dots.; MONAKHOVA, L.A.,
inzh.; YURKOVA, V.A., inzh.; CHAYANOV, R.A., red.;
VASILENKO, A.N., red.

[Manufacture of dress and suit fabrics of mixtures of
lavan with cotton and viscose fibers] Proizvodstvo pla-
tel'nykh i kostiumnykh tkaney iz smesi lavana s khlop-
kom i viskoznykh voloknom. Moskva, 1963. 31 p.

(HQA 17:5)

1. Moscow. Tsentral'nyy institut nauchno-tekhnicheskoy
informatsii legkoy promyshlennosti.

MONAKHOVA, L. P.

DECEASED
C. '62

1963/
4

Coal Geology

Grigorenko, L. V.

Dissertation: "Peculiarities of Graphitization of Chilled Thin-Walled Castings Under Conditions of Hot Loading Into a Furnace for Annealing." Cand Tech Sci, Dnepropetrovsk Metallurgical Inst, Dnepropetrovsk, 1953. Referativnyi Zhurnal—Zhurnal, Moscow, No 7, Apr 54.

SO: SUM 284, 26 Nov 1954

SANDLER, N. I., kand. fiziko-matematicheskikh nauk; MONAKHOVA, V. V.,
kand. tekhn. nauk; KURMANOV, M. I., kand. tekhn. nauk;
ALEKSANDROV, P. A., doktor tekhn. nauk; SABIYEV, M. P., inzh.

Defects in manganese-aluminum steel slabs. Met. i gornorud.
prom. no. 1:62-66 Ja-F '63. (MIRA 16:4)

1. Ukrainskiy institut metallov.

(Steel ingots—Defects)

SHNEYEROV, Ya.A.; MORAKHOVA, L.V.; PANICH, B.I.; SAVCHENKOV, V.A.; POLYAKOV, V.F.;
ARISTOV, N.I.; GELLER, Yu.A.

Mechanical properties of semi-skilled and capped St 3ps and St 3kp
steels. Metalloved. i term.cbr.met. no.9:2-8 S '65.

(MIRA 18:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut metallov.

STROGANOVA, N.S.; MONAKHOVA, M.A.

Cytomorphological observations on spermatogenesis in a species of
tyroglyphid mites. TSitologiya 6 no.1:66-72 Ja-F '64. (MIRA 17:9)

1. Kafedra genetiki i selektsii Moskovskogo universiteta.

MONAKHOVA, M.A.; GETSOVA, V.A.

Electron microscopic study of the transfer of nuclear products into the cytoplasm in spermatocytes of the grain mite. Dokl. AN SSSR 161 no.4: 949-951 Ap '65. (MIRA 18:5)

1. Moskovskiy gosudarstvennyy universitet. Submitted October 16, 1964.

STROGANOVA, N.S.; MONAKHOVA, M.A.

Formation of functional structures on the surface of spermatocyte nuclei in some species of Tyroglyphidae. Dokl. AN SSSR 157 no.5:1213-1215 Ag '64. (MIRA 17:9)

1. Moskovskiy gosudarstvennyy universitet. Predstavleno akademikom A.N. Bakulevym.

SARYLOVA, K.P., dotsent; VOLOKHINA, O.I.; MORIAKOVA, M.A.

Diagnostic significance of various immunological factors in
rheumatic fever in children. *Pediatrics* 39 no.2:37-42 F '61.

(MIRA 14:2)

1. Iz fakul'tetskoy terapevticheskoy kliniki lechetnogo fakul'teta (zav. - deystvitel'nyy chlen AMN SSSR prof. A.I. Nesterov) i fakul'tetskoy detskoy kliniki (zav. - prof. P.A. Ponomareva)
- II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova.

(RHEUMATIC FEVER) (ANTHEMOLYSIN) (HYALURONIDASE)

STROGANOVA, N.S.; MDNACHOVA, M.A.

Formation of mitochondria from the cell membrane in the spermatogonia of the grain mite. Dokl. AN SSSR 160 no.4:937-939 P 165.

(MIRA 18:2)

1. Moskovskiy gosudarstvennyy universitet. Submitted October 16, 1964.

KOSTOUZOV, A.I.; VASIL'YEV, V.S.; GRECHUKHIN, A.I.; DECTYARENKO,
N.S.; PETROCHENKOV, A.G.; PROKOPOVICH, A.Ye.; TELESNOV,
A.P.; SHEVYAKOV, L.N.; CONCHAROVA, S.L., nauchn. red.;
BORUSHKOY, I.V., red.; LOGINOVA, R.A., red.; MONAKHOVA,
N.E., red.; SHCHEGLOVA, I.B., red.; KOVAL'SKAYA, Y.F.,
tekhn. red.

[Machine-tool industry in Japan according to materials
from the Machine-tool Exhibition of 1962 in Osaka] Stan-
kostroenie Iaponii; po materialam stankostroi'el'noi
vystavki 1962 goda v g.Osaka. Moskva, 1963. 473 p.
(MIRA 1:6112)

1. Moscow. Tsentral'nyy institut nauchno-tekhnicheskoy
informatsii po avtomatizatsii i mashinostroyeriyu.
(Japan—Machine-tool industry)

ADESTOV, G.N.; BORISOV, V.I.; DVORYANINOV, N.V.; DUBKOV, V.B.;
PUZOVKIN, V.N.; MIKHAYLOV, S.B.; TUZHILKIN, V.G.;
CHERNOMASHINTSEV, A.I.; SHIKHOV, B.N.; YAKUBOVICH,
I.Ye.; UL'YANETSKIY, A.M., nauchn. red.; PROSVIRIN, A.D.,
stv. red.; KONAKHOVA, N.E., red.; KOGAN, F.L., tekhn. red.

[Motor vehicles of the U.S.S.R." catalog; the GAZ-51,
GAZ-51A, GAZ-63 and GAZ-63A motortrucks; structural changes
and the interchangeability of parts and units] Katalog-
spravochnik "Avtomobili SSSR: avtomobili GAZ-51, GAZ-51A,
GAZ-63, GAZ-63A; konstruktivnye izmeneniya i vzaimozamenia-
emost' detalei, uzlov i agregatov. Moskva, 1963. 74 p.
(MIRA 16:12)

1. Moscow. Tsentral'nyy institut nauchno-tekhnicheskoy in-
formatsii po avtomatizatsii i mashinostroyeniyu. 2. Glavnyy
konstruktor Gor'kovskogo avtomobil'nogo zavoda (for
Prosvirin).

(Motortrucks—Catalogs)

SEMUSHINA, T.N.; STAKHORSKAYA, L.K.; MONAKHOVA, N.I.

Utilization of various sugars by fodder yeast cultures.
Mikrobiologiya 32 no.5:863-868 5-0'63 (MIRA 17:2)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidro-
liznoy i sul'fitno-spirtovoy promyshlennosti, Leningrad.

LEKHOVITSKIY, I.N., inzh.; MONAKHOVA, N.N., inzh.; SHOKAL'SKIY, Yu.K.,
inzh.

Using the PFL8V type water emulsion varnish for impregnating the
stator windings of electric motors. Vest.elektroprom. 33 no.1:27-30
Ja '62. (MIRA 14:12)

(Electric insulators and insulation)

MONAKHOVA, S. I.

Cand Med Sci - (diss) "Epidemiology and microbiology of whooping in the Belorussian SSR." Minsk, 1961. 8 pp; (Minsk State Medical Inst); 200 copies; price not given; (KL, 5-61 sup, 204)

MEGREYEV, V.F.; MOMAKHOVA, T.Kh., starshiy inzh.

How to protect tanks from corrosion caused by a hydrogen sulfide solution. Neftianik 3 no.4:31 Ap '58. (MIRA 11:5)

1. Nachal'nik laboratorii neftepromyslovoy khimii i korrozii Azerbaydzhanskogo nauchno-issledovatel'skogo instituta po dobyche nefti (for Megreyev).

(Hydrogen sulfide) (Tanks) (Protective coatings)

КОМАНИЧОВА, В. И.

24019

КОМАНИЧОВА, В. И. К. Вopросу о физико-географическом изучении
Города. По материалам комплексной полевой практики в г. Загорск.
Учен. записки (Моск. Гос. Пол. Ин-т им. Ленина), Т. LIV, 1949,
с. 153-57.

SO: Ietopis, No. 32, 1949.

VLASOVA, T.V., dots.; MONAKHOVA, V.I., dots.; MONIN, S.A., dots.;
SHABETS, D.S., dots.; KREYS, I.G., tekhn.red.

[Programs of pedagogical institutes; physical geography of areas
of the world] Programmy pedagogicheskikh institutov; fizicheskaya
geografiya chastei sveta. [Moskva] Uchpedgiz, 1957. 23 p.

(MIRA 11:3)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye vysshikh i
srednikh pedagogicheskikh uchebnykh zavedenii.

(Physical geography--Study and teaching)

MONAKHOVA, V.I.

Basic principles of the methodology for conducting laboratory
and practical work in the physical geography of parts of the
world and suggested themes for the study of Northern America.
Uch. zap. MGPI 120:195-208 '58. (MIRA 16t8)

SOV-178-59-8-1/21

AUTHORS: Gol denberg, L.I., and Monakhova, V.S., Engineers

TITLE: The "GOST"-Standard Project for Coke Pig Iron (Proyekt GOSTa na koksovyy chushkovyy liteynyy chugun)

PERIODICAL: Liteynoye proizvodstvo, 1958, Nr 8, pp 1-3 (USSR)

ABSTRACT: The project of the new state standard, "GOST" for foundry pig iron (to replace "GOST 4852-49") is described. It is pointed out that the grades "LK-00" and "LK-0" have been deleted and a new, "LK-5", grade with silicon content of 0.75-1.25% introduced. In 1958, 5 to 10% of the total 6 million tons of foundry iron produced will be in the two deleted grades. The yearly requirement for ferrosilicon, after the new standard comes into effect, is herein calculated. The published project is presented by the Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (Central Scientific Research Institute of Ferrous Metallurgy).

1. Iron--USSR 2. Iron--Specifications 3. Iron--Production

Card 1/1

BARAM, A.A.; KOKUSHKIN, O.A.; MISHCHENKO, K.P.; FLIS, I.Ye.; ARKHIPOVA,
Z.V.; VAVILOVA, I.I.; MONAKHOVA, Ye.V.; SHCHUTSKIY, S.V.

Recovery of complex catalysts from dispersions of polyethylene
by means of methanol in a rotary apparatus. Plant. massy
no.11:58-59 '63. (MIRA 16:12)

MONAKHOVICH, L.S. (g.Arkhangel'sk)

Experience in extracurricular work in geography in Archangel
schools. Geog. v shkole 22 no.2:63-65 Kr-Ap '59.

(MIRA 12:6)

(Archangel--Geography--Study and teaching)

FREYDIN, I.L.; MONAKHOVICH, L.S.

Several problems in developing the industry and transportation of the European part of the northern U.S.S.R. Prob. Ser. no.5:19-31 '63. (MIRA 16:11)

1. Tsentral'nyy ekonomicheskii nauchno-issledovatel'skiy institut Gosplana RSFSR.

MONAKHOVICH, L.S.

Interregional and intraregional economic relations of
the Karelian A.S.S.R. Prob. Sev. no.5:68-83 '61.
(MIRA 16:11)
1. Tsentral'nyy ekonomicheskiy nauchno-issledovatel'skiy
institut Gosplana RSFSR.

HORVATH, M.; MONAKI, S.

Thromboangitis obliterans with visceral localization. Med. int., Bucur.
10 no.5:753-760 May 58.

I. Incrare efectuate in Clinica a II-a medicală, Tîrgu Mureș, director,
prof. A. Horvath.

(THROMBOANGITIS OBLITERANS, case reports
coronary, cerebral & renal forms)

(CORONARY DISEASE, case reports
thromboangitis obliterans, coronary & peripheral)

(BRAIN, blood supply
thromboangitis obliterans, manifest. & case report)

(KIDNEYS, blood supply
same)

USSR/Diseases of Farm Animals. General Problems.

R-1

Abs Jour : Ref Zhur - Biol., No 10, 1958, 45365

Author : Monako, G.I.

Inst : Stavropol' Agricultural Institute.

Title : On the Injections of Honey Solutions to Larger Farm Animals.

Orig Pub : Sb. nauchno-issled. rabot stud. Stavropol'sk s. kh. in-t, 1956, vyp. 4, 141-143

Abstract : No abstract.

Card 1/1

SOV/112-59-2-3112

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 2, p 125 (USSR)

AUTHOR: Kruglov, A. S., and Monakov, A. K.

TITLE: A Device for Automatic Checking of Short-Circuited Turns in a Rotor Winding (Ustroystvo dlya avtomaticheskogo kontrolya korotkozamknutykh vitkov v obmotke rotora)

PERIODICAL: Tr. Leningr. in-t aviats. priborostr., 1958, Nr 20, pp 33-45

ABSTRACT: Bibliographic entry.

Card 1/1

FEDOSEYEV, Dmitriy Nikolayevich, kand. tekhn. nauk; Prinsipali uchastiyet
MORAKOV, A.K., inzh.; LUKICHEV, A.N., inzh.; BULOVSKIY, P.I.,
doktor tekhn. nauk, retsentsent; DENINA, I.P., red.izd-va;
SHCHETIMINA, L.V., tekhn. red.

[Designing technological processes for the assembly of
instruments] Proektirovanie tekhnologicheskikh protsessov sbor-
ki priborov. Izd.2., perer. i dop. Moskva, Mashgiz, 1963. 286 p.
(MIRA 16:5)

(Instrument industry) (Assembly-line methods)

L 29963-66

ACC NR. AR5023752

SOURCE CODE: UR/0276/65/000/000/1026/1026

AUTHOR: Monakov, A. K.; Shneyder, Yu. G.

TITLE: The effect of technological factors on the precision and magnetic characteristics of magnetic line elements in small-dimension selsyns during stamping.

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 8V204

REF SOURCE: Tr. Leningr. in-t aviats. priborostr., vyp. 43, 1964, 41-45

TOPIC TAGS: metal cutting, metal forming, *magnetic circuit, die*

ABSTRACT: Results are given on the investigation of the effect of the production precision of flanking die matrix, their position toward the strip, and the condition of the lip as far as the precision, and the magnetic properties of the pinched blanks of stator and toroid plates of small dimension stamps are concerned. It was established that the effect of technological factors in stamping magnetic circuit on the selsyn performance property is essential and should not be neglected. By setting a time limit for regrinding of the flanking die matrix (in

Card 1/2

UDC 621.961.001.1

L 29963-66

ACC NR. AR5023752

this case a regrinding is necessary after punching 60 thousand pieces), and by properly selecting the die-cut hole impression allowance, and its particular position toward the strip from which the plates are punched, the dimension accuracy and the magnetic property of the stator and toroids can be increased. 5 illustrations. S. Kolesnikov.

SUB CODE: 13,20,69/SUBM DATE: none

Card 2/2

L 3501-06 EN (2)/3501-06/EN (2)/3501-06/EN (2) 1966 1966

ACC NR: AP6015342

SOURCE CODE: UR/0119/66/000/005/0016/0018

AUTHOR: Monakov, A. K. (Candidate of technical sciences); Shneyder, Yu. G.
(Candidate of technical sciences)

ORG: none

TITLE: Investigation of the effect of machining of magnetic systems upon the
accuracy of synchros

SOURCE: Priborostroyeniye, no. 5, 1966, 16-18

TOPIC TAGS: selsyn, synchro, angle transmission, permalloy

ABSTRACT: Heretofore, magnetic-circuit (permalloy) parts of synchros have
been ground with the accompanying undesirable surface heating and embedding of
abrasive particles; this machining method has caused considerable and widely
spread errors in synchros. A new machining method developed by LITMO and

Card 1/2

UDC: 621.9.015

L 35821-66

ACC NR: AP6015342

LIAP replaces grinding with ball burnishing applied directly after the finish turning. While grinding reduced the core induction by 40%, ball burnishing practically does not affect it. Magnetic asymmetry of burnished cores is lower by 25-30% than that of ground ones. New synchros exhibited a static error of 30 angular minutes as compared to 45 angl. min of the old ground specimens. The productivity of ball burnishing is 4 and 2 times as high as that of grinding for rotors and stators, respectively. Orig. art. has: 4 figures.

SUB CODE: /47/3 SUBM DATE: none / ORIG REF: 004

Card 2/2

MONAKOV, A.V.

Zooplankton in the Volga mouth region of Rybinsk Reservoir during
1947-1954. Trudy Biol. ucheb. "Borok" no. 3: 214-225 '58. (MIRA 11:9)
(Rybinsk Reservoir--Zooplankton)

Menakov, A.V.

26-58-5-50/57

AUTHORS: Mordukhay-Boltovskoy, P.D., Doctor of Biological Sciences,
Menakov, A.V.

TITLE: An Unusually Early Spring (Neoby chayno ranniyaya vesna)

PERIODICAL: Priroda, 1958, Nr 5, p 124 (USSR)

ABSTRACT: The spring of 1957 was extraordinarily early in the central regions of the European part of the USSR, especially in the Yaroslavl' Oblast'. There, in the Nekuzskiy Rayon, a thunderstorm occurred on 29 April with an ensuing rise of temperature by the 11th of May that reached 26 to 28°C in the shade. Then the temperature decreased a bit and stayed this way all through the month resulting in early ripening processes in the local plant world and a summer drought by the beginning of June.

ASSOCIATION: Institut biologii vodekhranilishch Akademii nauk SSSR, Borek
(Institute of the Biology of Water Reservoirs of the AS USSR, Borek)

AVAILABLE: Library of Congress
Card 1/1 1. Climate - USSR

AUTHOR: Monakov, A. V. 20-119-3-62/65

TITLE: Some Data on the Development- and Propagation- Biology of Acanthocyclops viridis (Jur) (Copepoda, Cyclopoida)
(Nekotoryye dannyye po biologii razvitiya i razmnozheniya Acanthocyclops viridis (Jur) (Copepoda, Cyclopoida)

PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr 3, pp. 613-616 (USSR)

ABSTRACT: This kind is one of the most extensively propagated and colonizes the most different fresh-water reservoirs. The author investigated their life cycle and the influence of temperature on their metamorphosis. In the previous investigations a few aspects of their biology have not been explained (ref. 4). As Ac.viridis has developed in large quantities in the Rybinsk- reservoir and in other reservoirs, the author's observations from the year 1956 are to be published, the more so as in many instances they are different from data from publications. Initially the method of breeding is described. In contrast to reference 4 the cyclopes after underfeeding remained behind in the development or entirely discontinued the development in the 2nd-3rd copepodan stage. Well nourished cyclopes are distinguished by active movements, intensely

Card 1/3

Some Data on the Development- and Propagation- Biology of 20-119-3-62/65
Acanthocyclops viridis(Jur) (Copepoda, Cyclopoida)

colored intestines and fat impactions in the body; the copulation is described. The oviposition and formation of yolk sacs in the female always begins 5-6 days after the coition (in contrast to reference 4). The assumption (reference 5) that the duration of the bearing to maturity of the yolk sacs (in Eudiaptomus gracilis) is independent from the conditions of nourishing the female is also applicable for Ac. viridis. The bearing to maturity is a protection measurement against the eggs being eaten up, among others by the parents themselves. Furthermore the temperature dependence is discussed and the development described in detail. The shortening of the time of the metamorphosis by raising the temperature mainly takes place at the expense of the nauplius period. At 10.8° the cyclopes reached the grown-up stage after 42 days, whereas at 20° and 27° they were grown-up after 20-22 days. In mass cultures the metamorphosis is delayed (in contrast to ref. 2). There are differences in the speed of development among individuals of this kind altogether (figure 2). In contrast to reference 4 neither females nor males could be observed which had an initial period of inability of developing mature sex products. On the contrary, males were observed which tried

Card 2/3

Some Data on the Development- and Propagation- Biology of Acanthocyclops viridis (Jur) (Copepoda, Cyclopoida) 20-119-3-62/65

to fertilize females not having arrived at puberty. The total lifetime of Ac. viridis at higher temperatures (20.27°) and after individual bringing up is 53-64 days, after common bringing up 60-82 days, that is about 2-3 months (in contrast to 3-4 months in ref. [4]). At a lower temperature a generation of remarkable stature will appear. The weight here is almost doubled. Obviously the puberty is delayed by lower temperatures (corresponding to reference 2). There are 2 figures, and 4 references, 1 of which is Soviet.

ASSOCIATION: Institut biologii vodokhranilishch Akademii nauk SSSR (Institute of Biology of Water Reservoirs of the AS USSR)

PRESENTED: January 9, 1958, by Ye. N. Pavlovskiy, Member, Academy of Sciences, USSR

SUBMITTED: January 16, 1957

AVAILABLE: Library of Congress

Card 3/3

20-120-2-56,65

AUTHOR:

Monakov, A. V.

TITLE:

The Life Cycle of Macrocyclops Leuckarti Claus
(Copepoda, Cyclopoida) (Zhiznennyy tsikl Macrocyclops
leuckarti Claus. /Copepoda, Cyclopoida/)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1958, Vol. 120, Nr 2,
pp. 419-421 (USSR)

ABSTRACT:

The kind mentioned is wide spread and lives in the most different sorts of waters. In the Rybinsk reservoir, as well as in many of the others of the middle zone it is one of the main components of the pelagic plankton. Many investigations, especially abroad, are devoted to that kind (references 3,4, 7). No works on the development and the life cycle are known to the author, so that he thinks it is useful to publish his own results obtained in 1957. For that work he already described methodology was applied (reference 1). In the course of their development the hatched nauplii go through 6 stages of development, which are separated by desquamations. From the first to the third stage, a considerable mortality was observed, since the nauplii of that kind are more pretentious under laboratory-conditions than those

Card 1/4

The Life Cycle of Mesocyclops Leuckarti Claus
(Copepoda, Cyclopoida)

304/20-120-2-56/63

of littoral-benthonic forms. At a temperature of 20° the nauplius-stage of copepod is the longest; it is followed by puberty. The entire metamorphosis on the average lasts 18 days at a temperature of 20°. The development of the two generations per year lasts about equally long. At a temperature of 27°, the second generation needs a $1\frac{1}{2}$ times shorter period. The rapidity of development is not inheritable but depends on temperature and feeding (reference 6). The males become pubescent 1-2 days earlier than the females. The fertility of the discussed kind is highly dependent on the temperature. The potential fertility of a female is on the average 120-150 nauplii at a temperature of 20°. The eggs develop in the Graafian vesicles for 2 days. 2-4 days pass from the time of hatching to the formation of a new pair of Graafian vesicles. The duration of life of a female was shorter at a temperature of 27° than at normal temperature and amounted to an average of 36 days. In that period the female produced an average of 8 pairs of Graafian vesicles. Thus the duration of life of

Card 2/4

The Life Cycle of Mesocyclops Leuckarti Claus
(Copepoda, Cyclopoida)

304/ 20-120-2-56/63

an animal, altogether in both generations at 20° 60-61 days, at 27° - 46 days (second generation) and 52 days (first generation). An inverse correlation exists between temperature and size of the body, as it often occurs in the open air (references 1,5). At 20° the size of the body was 0,9 mm of females, and 0,7 of males in the first generation. At 27° the size of the body decreases: 0,86 of females, 0,68 of males. There are 8 references, 4 of which are Soviet.

ASSOCIATION: Institut biologii vodokhranilishch Akademii nauk SSSR
(Institute for the Biology of Reservoirs AS USSR)

PRESENTED: February 7, 1958, by I. I. Shmal'gauzen, Member, Academy of Sciences, USSR

SUBMITTED: February 6, 1958

Card 3,4

The life cycle of Leptocyclidium Leuckarti Claus 304/20-120-2-76/65
(Leptocyclidium, Cycle 1)

1. Aquatic animals—Development
2. Aquatic animals—Physiology
3. Aquatic animals—Temperature factors

Card 1/4

MONASOV, A. V. Cand Biol Sci -- (diss) "Basic features of the biology of
Acanthocyclops-viridis (jur) and Mesocyclops-leuckarti-claus (copepoda, ~~copepoda~~
cyclopoida) cyclops." Mos, 1959. 15 pp (Zoology Inst, Acad Sci USSR.
Academic Council), 150 copies (KL, 52-59, 119)

MONAKOV, A.V.

Carnivorous food habits of *Acanthocyclops viridis* (Jur.)
(Copepoda, Cyclopoida). Trudy Inst.biol.vodokhran. no.2:
117-127 '59. (MIRA 13:5)
(Rybinsk Reservoir--Copepoda)
(Animals, Food habits of)

17(4)

AUTHORS:

Monakov, A. V. Sorokin, Yu. I.

SOV/20-125-1-55/67

TITLE:

Attempts to Investigate the Predatory Way of Nutrition of Cyclopes by Means of the Isotopic Method (Opyty izucheniya khishchnogo pitaniya tsikloпов s primeneniya izotopnoy metodiki)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959. Vol 125. Nr 1. pp 201-204 (USSR)

ABSTRACT:

The potential ability of cyclopes to eat various water-vertebrates is well-known (Refs 1-5, 6). The papers referred to give, however, no answer in how far this or that type of nutrition is assimilated. These data could, however, particularly contribute towards the correct definition of the differences between the quantities of nutrition taken by cyclopes during 24 hours when feeding on different sorts of water animals. For the purpose of clarifying this problem the authors worked out an isotopic method for *Acanthocyclops viridis* Jur. and *Mesocyclops leuckartii* Claus which by means of C^{14} facilitates the finding of the amount of assimilated living nutrition in the course of a short experiment. The work was

Card 1/4

Attempts to Investigate the Predatory Way of Nutrition of Cyclopes by Means of the Isotopic Method SOV/20-125-1-55/67

carried out in 1958 in the Cherezhanskaya bay of the Kuybyshev reservoir. As nutrition of the cyclopes crustacean-filtrators marked with

C^{14} were used: *Daphnia longispina*, *Diaptomus graciloides* and *D. gracilis*, *Diaphanosoma brachyurum* and *Ceriodaphnia dubia*. They were traced by feeding on protozoal algae marked with C^{14} (Ref 4). Table 1 gives the experimental results. The cyclopes happen to assimilate only a small part of the killed prey (4.6 - 21.7%). In the case of *M. leuckarti* the amount of nutrition fluctuates between 0.7 and 2.1 g within 24 hours with a C content of 2.5 g in the body of the cyclope. The highest quantity of nutrition was eaten in the case of feeding on *Diaphanosoma* and *Daphnia* and the smallest in the case of feeding on *Diaptomus* and *Ceriodaphnia*. To the smallest daily amount of food the highest percentage of assimilation corresponds and vice versa. In the case of feeding *A. viridis* on *Daphnia*, *Diaptomus* and *Diaphanosoma* the amounts of food eaten within 24 hours rather approached one another. The percentage of assimilability fluctuated, however, very much.

Card 2/4

Attempts to Investigate the Predatory Way of Nutrition of *Cyclops* by Means of the Isotopic Method SOV/20-125-1-55/67

Diaptomus were twice as much assimilable as Daphnia and more than Diaphanosoma. In the case of feeding on Ceriodaphnia both the daily intake of food and the assimilability were highest. The percentage of renewal (protsent vozobnovleniya) (P) fluctuates in the case of *M. leuckarti* between 2 and 6% and between 5.1 and 25.7% in the case of *A. viridis*. The quantity P is an index of nutrition intensity and depends on the amount of nutrition eaten and on its assimilability. In case that the nutrition eaten is not restricted by the factor of accessibility (degree of mobility of the body, size of the body etc) P fluctuates at various types of nutrition with the assimilability of food (the case of *A. viridis* - a big and strong beast of prey). In this case the factor of accessibility becomes unimportant. In contrast to this in the case of the small *M. leuckarti* this factor has a considerable influence upon the quantity P which decreases very much when feeding on big mobile types or hard-shelled (Diaptomus, and Ceriodaphnia respectively). With dropping temperature the assimilability decreases rapidly, whereas the quantity of food eaten within 24 hours remains unchanged. There are 1 table and 6 references.

Card 3/4

Attempts to Investigate the Predatory Way of Feeding of
Cyclopes by Means of the Isotopic Method

5 of which are Soviet.

ASSOCIATION: Institut biologii voekhraniliashch Akademii nauk SSSR
(Institute of the Biology of Reservoirs of the Academy of
Sciences, USSR)

PRESENTED: November 15, 1958, by I. I. Shmal'gauzer, Academician

SUBMITTED: November 12, 1958

Card 4/4

MONAKOV, A.V.; SOROKIN, Yu.I.

Use of the isotope method in studying the feeding of Cyclops species
and their naupliar stages on bacterial feeds. Izv. AN SSSR. Ser. biol.
no. 6: 917-922 N-D '60. (IURA 13:11)

1. Institut biologii vodokhranilishch.
(COPEPODA)
(BACTERIA)
(CARBON--ISOTOPES)

MONAKOV, A.-V.; SOROKIN, Yu.I.

Experimental study of the feeding of Daphnia by the use of C^{14} . Dokl.
AN SSSR 135 no.6:1516-1518 D '60. (MIRA 13:12)

1. Institut biologii vodokhranilishch Akademii nauk SSSR. Predstav-
leno akademikom Ye.N. Pavlovskim.
(WATER FLEAS) (FRESH-WATER BIOLOGY)

MONAKOV, A.V.; SOROKIN, Yu.I.

Quantitative data on the feeding of Daphnia. Trudy Inst. biol.
vodokhran. no. 4:251-261 '61. (MIRA 14:10)
(Water fleas)

MONAMOV, A.V.

Duration of metamorphosis in *Macrocyclops albidus* (Jurine) (Copepoda, Cyclopoida). Biul. Inst. biol. vodokhran. no.12:33-35 '62. (MIRA 16:3)

1. Institut biologii vodokhranilishch AN SSSR.
(Rybinsk Reservoir—Cyclops)

MORDUKHAY-BOLTOVSKOY, F.I.; MONAKOV, A.V.

Distribution of zooplankton in Rybinsk Reservoir in spring.
Trudy Inst. biol. vnutr. vod no.6:78-90 '63.

(MIRA 18:1)

MONAKOV, A.V.

Plankton and benthos of Kama Reservoir in 1961. Trudy Inst. biol.
vnutr. vod no.6:108-114 '63.

Feeding habits of water fleas of the genus Macrocylops Claus.
Ibid.:115-122 (MIRA 18:1)

MONAKOV, A.V.

Zooplankton of the Oka River. Trudy Zool. inst. 32:106-112 '64.
(MIRA 17:11)

MONAKOV, A.V.

Effect of temperature on the sex ratio in the offspring of
Macrocylops albidus (Jur.) (Copepoda, Cyclopoida). Zool. zhur.
44 no.4:606-608 '65. (MIRA 18:6)

1. Institut biologii vnutrennikh vod AN SSSR, pochtovoye otde-
leniye Borok, Yaroslavskaya oblast', Nekouzskiy rayon.

ALIYEV, Ya.Yu.; ROMANOVA, I.B.; MONAKOV, M.I.

Hydrogenation of toluene by the flow-through method on alloyed
nickel-aluminum skeletal contact catalyst. Izv. AN Uz. SSR. Ser.
khim. nauk. no.3:81-85 '57. (MIRA 11:9)
(Toluene) (Hydrogenation) (Catalysts)

SULTANOV, A.S.; ALIYEV, Ya.Yu.; VASIL'YEVA, N.V.; ROMANOVA, I.B.;
MONAKOV, M.I.

Hydration of silvan and furan in a pressurized flow system.
Dokl. AN Uz. SSR no.12:27-29 '57. (MIRA 11:5)

1. Institut khimii AN UzSSR. Predstavlene akad. AN UzSSR A.S.
Sadykovym.

(Furan) (Hydration)

SULTANOV, A.S.; VASIL'YEVA, N.V.; ALIYEV, Ya.Yu.; SAJAYEV, A.S.;
MORAKOV, M.I.

Catalytic hydrofining of benzene in removing sulfur impuri-
ties. Uzb.khim.shur. no.4:48-53 '59. (MIRA 13:1)

1. Institut khimii AN UzSSR.
(Benzene) (Sulfur)

ALIYEV, Ya.Yu.; GAR'KOYETS, T.G.; KOVINA, I.M.; ROMANINA, I.B.;
MONAKOV, M.I.

Use of active carbon monoxide in the carbonylation reaction.
Usb.khim.shur. no.4:54-60 '59. (MIHA 13:1)

1. Institut khimii AN UssSR.
(Carbon monoxide)

SULTANOV, A.S.; VASIL'YEVA, N.V.; ALIYEV, Ya.Yu.; SAPIYEV, A.S.; MOMANOV, M.I.

Hydrogenation of benzene on a skeleton nickel-molybdenum catalyst
with an oxide surface. Dokl. AN Uz. SSR no.9:30-32 '59.
(MIRA 13:1)

1. Institut khimii polimerov AN UzSSR. Predstavleno chlenom-
korrespondentom AN UzSSR Kh. U. Usmanovym.
(Benzene) (Hydrogenation) (Catalysts)

ALIYEV, Ya. Yu.; ROMANOVA, I. B.; MONAKOV, M. I.

Carbonylation of tetrahydrofuran under pressure. Uzb. khim. zhur.
no.1:57-62 '60. (MIRA 14:4)

1. Institut khimii AN UzSSR.
(Furan) (Carbonyl compounds)

MONAKOV, N.E.

Echinococcus in man in southern Tajikistan. Dokl. AN Tadzh. SSR
no. 4:37-41 '52. (MLRA 9:9)

I. Stalinabadskaya gospiatal'naya khirurgicheskaya klinika.
Predstavlena chlenom-korrespondentom AN Tadzhikskoy SSR N.F.
Bereskiym.
(Tajikistan--Hydatids)

KOMAKOV, N.E., docent. (Stalinabad)

Method for the application of ice. Fel'd i akush.no.12:29-30 D '55.
(MIRA 9:3)

(ICE--THERAPEUTIC USE)